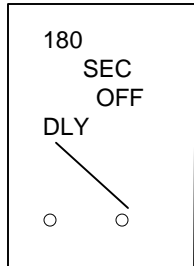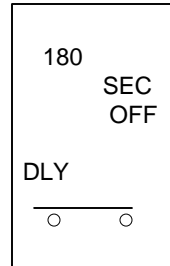# Programming of the 7955 times used in
Oxford Cryo-Pump Controllers

Note: Programming to be done with No Power to
Rack. For **Timer 1** the desired configuration is:
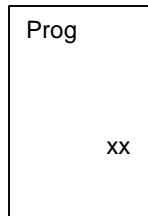
No Power to Rack

With Rack Active

```
┌──────────────┐          ┌──────────────┐
│ 180          │          │  180         │
│    SEC       │          │     SEC      │
│      OFF     │          │       OFF    │
│ DLY          │          │              │
│              │          │  DLY         │
│   \          │          │  ──────────  │
│  ○     ○     │          │  ○      ○    │
│              │          │              │
└──────────────┘          └──────────────┘
```

Goes to this
configuration
when Rack
Active

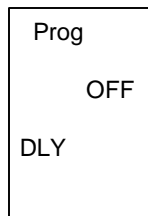A. To start programming mode

Press "prog" button and hold for 3-5 seconds. At the end of that time display will show.

```
┌──────────────┐
│ Prog         │
│              │
│              │
│         xx   │
│              │
│              │
└──────────────┘
```

B. To set timer relay configuration

Press "Prog" button as many times as necessary to display.

```
┌──────────────┐
│  Prog        │
│        OFF   │
│ DLY          │
│              │
│              │
└──────────────┘
```

Press "Reset" button when you have the desired relay configuration.

C. To set time scale (hrs, min, sec):

Press "Prog" button as many times as necessary to display.

```
┌─────────────────────────┐
│ Prog                    │
│                         │
│                   0     │
│                 SEC     │
│                         │
│                         │
│                         │
│                         │
└─────────────────────────┘
```
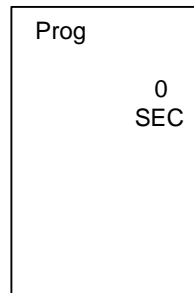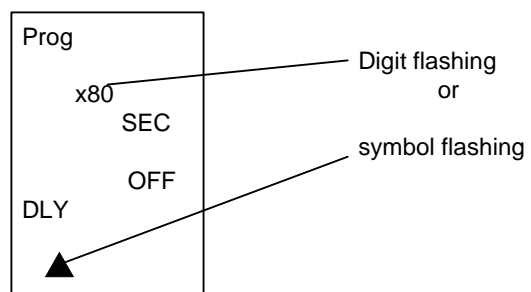
Press reset button when you have the desired time scale

D. To set delay time (least significant digit)

- The desired setting is 180, least signficant digit can be set by pressing "Prog" button until desired # is set, when set press "Reset" button and display will move to next signficant digit

```
┌─────────────────────────┐
│ Prog                    │          Depending on unit , least
│                         │          signficant digit will flash or
│     x x x               │          will be flashing
│                         │
│         SEC             │
│                         │
│             OFF         │
│                         │
│ DLY                     │
│             ▼           │
└─────────────────────────┘
```
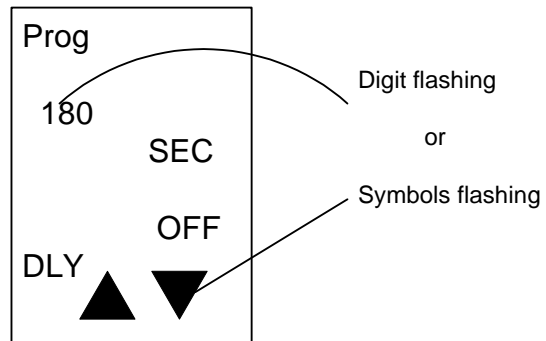
E. To set delay time (next significant digit)

- Press "Prog" button until the desired # is set, when set press "Reset" button and the display will move to the next significant digit
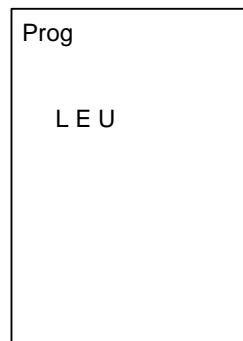
```
┌─────────────────────────┐
│ Prog                    │          Digit flashing
│                         │                or
│     x80                 │
│         SEC             │
│                         │          symbol flashing
│             OFF         │
│ DLY                     │
│                         │
│   ▲                     │
└─────────────────────────┘
```

F. To set delay time (most significant digit)
   - Press "Prog" button until the desired # is set
   - Press "Reset" button

Prog

180

SEC

OFF

DLY ▲ ▼

Digit flashing

or

Symbols flashing

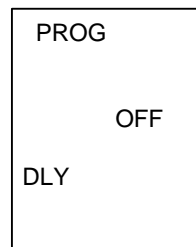G. Set trigger type [Level (LEU) or Edge (Edg)]
   - Press "Prog" button to display LEU
   - Press "Reset" button when desired trigger type
     is indicated

Prog

L E U

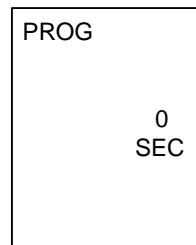H. The timer now reviews your selected setting (if changes were made

{Timer Relay Conf.}

If the selection is correct
- Press "Reset" button

```
┌─────────────┐
│ PROG        │
│             │
│        OFF  │
│             │
│ DLY         │
│             │
└─────────────┘
```

If incorrect press "Prog" button until you have
the correct selection, then press "Reset"

{Time Scale}

If selection is correct
- Press "Reset" button

```
┌─────────────┐
│ PROG        │
│             │
│          0  │
│        SEC  │
│             │
│             │
└─────────────┘
```

If incorrect press "Prog" button until
you have the correct selection then
press "Reset" {time setting (lsd)}

{Time setting lsd}

If selection is correct
- Press "Reset" button

```
┌─────────────┐
│ PROG        │
│             │
│ 180 ──────── Flashing
│      SEC    │
│      OFF    │       or
│             │
│ DLY    ▼ ──── Flashing
└─────────────┘
```

If incorrect press "Prog" button
until you have the correct
selection, then press "Reset"

If selection is correct
- Press "Reset" button

```
┌─────────────┐
│ PROG        │
│             │
│ 180         │
│         ──── Flashing
│      SEC    │
│      OFF    │       or
│ DLY         │
│             │
│    ▲ ─────── Flashing
└─────────────┘
```
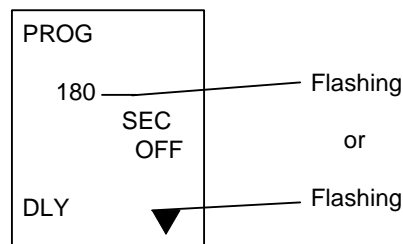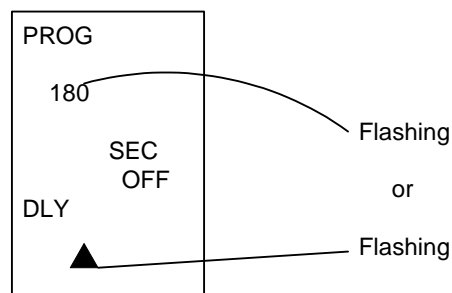
{Time setting nsd}

If incorrect press "Prog" button until
you have the correct selection -
then press "Reset"

If selection is correct
- Press "Reset" button

PROG

180   Flashing

       SEC   or
        OFF

DLY   Flashing
▲ ▼

[Time Setting MSD]

If incorrect, press "Prog" button until
you have the correct selection, then
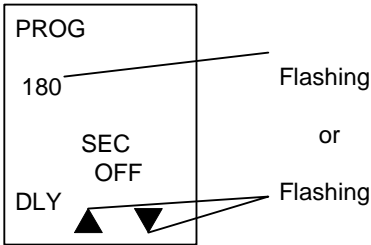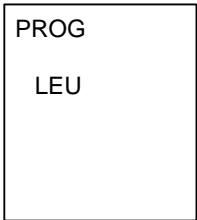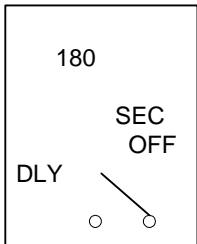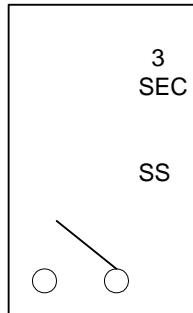press "Reset"

If selection is correct
- Press "Reset" button

PROG

LEU

[Trigger type]

If incorrect, press "Prog" button until
you have the correct selection, then
press "Reset"

180

       SEC
       OFF
DLY

○   ○

Operational state

No Rack Active

Timer 2 - The same sequence is now done for Timer 2. The desired configuration is [Note - Trigger type is Edg], and desired configuration is the same Rack Active or not.

A. To start programming mode:
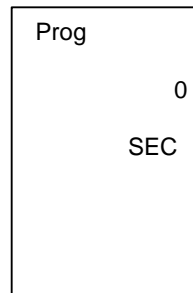   Press "Prog" button and hold for 3-5 seconds, at the end of that time display will show
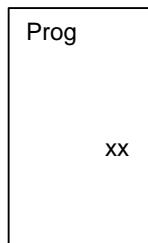
B. To set timer relay configuration:
   Press "Prog" button as many times as necessary to display
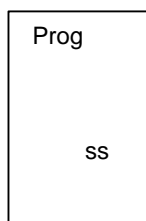
Press "Reset" button when you have the desired relay configuration.
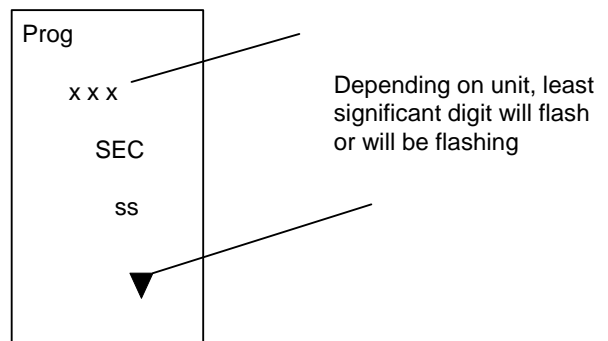
C. To set time scale (hrs, min, sec):
   Press "prog" button as many times necessary to display

```
┌─────────────────┐
│ Prog            │
│                 │
│              0  │
│            SEC  │
│                 │
│                 │
│                 │
└─────────────────┘
```

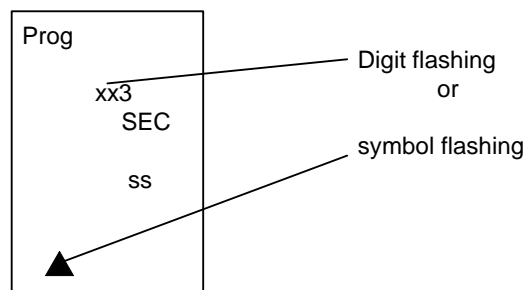   Press reset button when you have the desired time scale.

D. To set delay time (least significant digit)

   - The desired setting is 003, least signficant digit can be set
     by pressing "Prog" button until desired # is set, when set
     press "Reset" button and display will move to next
     signficant digit

```
┌─────────────────┐
│ Prog            │
│                 │
│    x x x        │
│                 │
│        SEC      │
│                 │
│        ss       │
│                 │
│        ▼        │
└─────────────────┘
```

Depending on unit, least
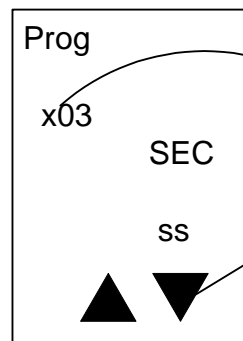significant digit will flash
or will be flashing

E. To set delay time (next significant digit)

   - Press "Prog" button until the desired # is set, when set
     press "Reset" button and the display will move to the
   next significant digit

```
┌─────────────────┐
│ Prog            │
│                 │
│    xx3          │
│      SEC        │
│                 │
│      ss         │
│                 │
│    ▲            │
└─────────────────┘
```

Digit flashing
        or

symbol flashing

F. To set delay time (most significant digit)
    - Press "Prog" button until the desired # is set
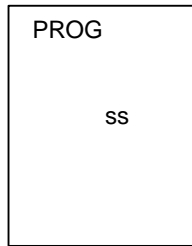   - Press "Reset" button

Prog

x03

SEC

ss

▲ ▼

Digit flashing

or

Symbols flashing

G. Set trigger type {(Level (LEU) or Edge (Edg)}
    - Press "Prog" button to display Edg
    - Press "Reset" button when desired trigger type
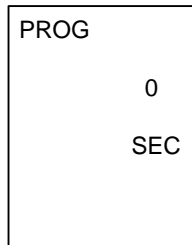   is indicated

Prog

Edg
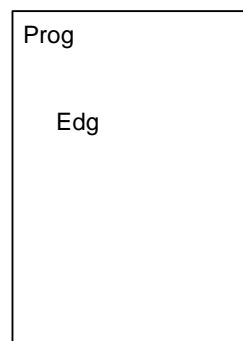
H. The timer now reviews your selected setting (if changes were made)

If the selection is correct
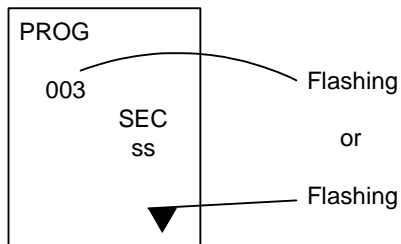- Press "Reset" button

PROG

ss

{Timer relay conf.} If incorrect press "Prog" button until you have the correct selection then press "Reset" {time scale}

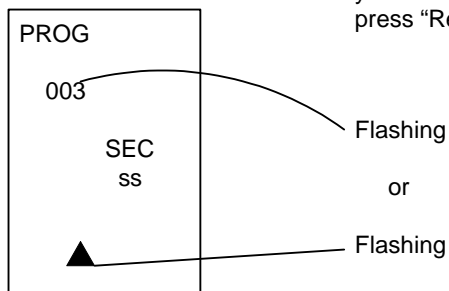If selection is correct
- Press "Reset" button

PROG

0

SEC

If incorrect press "Prog" button until you have correct selection then press "Reset" {time setting (lsd)
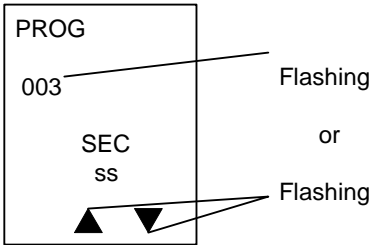
If selection is correct
- Press "Reset" button

PROG

003

SEC
ss

Flashing

or

Flashing

If incorrect press "Prog" button until you have correct selection - then press "Reset"

If selection is correct
- Press "Reset" button

PROG

003

SEC
ss

Flashing

or

Flashing

If selection is correct
- Press "Reset" button

[Time Setting MSD]

```
PROG

003                    Flashing

       SEC              or
        ss
                       Flashing
       ▲   ▼
```
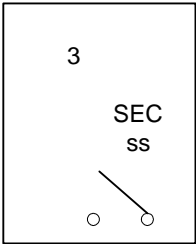
If incorrect, press "Prog" button until you have the correct selection, then press "Reset"

If selection is correct
- Press "Reset" button

[Trigger type]

```
PROG

  Edg
```
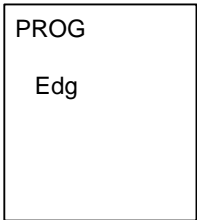
If incorrect, press "Prog" button until you have the correct selection, then press "Reset"

Operational state

(Rack active or not)

```
3

       SEC
        ss

    ○     ○
```